

OIKE

RAW SEQUENCE LISTING

DATE: 10/18/2001

PATENT APPLICATION: US/09/965,703

TIME: 16:19:41

Input Set : A:\A01020B.ST25.txt

Output Set: N:\CRF3\10182001\I965703.raw

ENTERED

3 <110> APPLICANT: Rohm and Haas Company
 4 Palli, Subba Reddy
 5 Kapitskaya, Marianna Zinovjevna
 6 Cress, Dean Ervin
 8 <120> TITLE OF INVENTION: Novel Ecdysone Receptor-Based Inducible Gene Expression System
 10 <130> FILE REFERENCE: A01020B
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/965,703
 13 <141> CURRENT FILING DATE: 2001-09-26
 15 <150> PRIOR APPLICATION NUMBER: 60/191,355
 16 <151> PRIOR FILING DATE: 2000-03-22
 18 <150> PRIOR APPLICATION NUMBER: 60/269,799
 19 <151> PRIOR FILING DATE: 2001-02-20
 21 <150> PRIOR APPLICATION NUMBER: PCT/US01/09050
 22 <151> PRIOR FILING DATE: 2001-03-21
 24 <160> NUMBER OF SEQ ID NOS: 75
 26 <170> SOFTWARE: PatentIn version 3.1
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 1288
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Choristoneura fumiferana
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <223> OTHER INFORMATION: Novel Sequence
 38 <400> SEQUENCE: 1
 39 aagggccctg cgccccgtca gcaagaggaa ctgtgtctgg tatgcgggga cagagcctcc 60
 41 ggataccact acaatgcgct cacgtgtgaa ggggtgtaaag gggtcttcag acggagtgtt 120
 43 accaaaaatg cgggtttatat ttgtaaaattc gggtcacgctt gcgaaatgga catgtacatg 180
 45 cgacggaaat gccaggagtg ccgcctgaag aagtgtcttag ctgtaggcat gaggcctgag 240
 47 tgcgtagtac ccgagactca gtgcgccatg aagcggaaaag agaagaaagc acagaaggag 300
 49 aaggacaaaac tgcctgtcag caccgacgacg gtggacgacc acatgccgcc cattatgcag 360
 51 tgtgaacctc caccctcctga agcagcaagg attcacgaag tgggtcccaag gtttctctcc 420
 53 gacaagctgt tggagacaaa ccggcagaaa aacatccccc agttgacagc caaccagcag 480
 55 ttccttateg ccaggctcat ctggtaccag gacgggtacg agcagccttc tgatgaagat 540
 57 ttgaagagga ttacgcagac gtggcagcaa gcggacgatg aaaacgaaga gtctgacact 600
 59 cccttcgccg agatcacaga gatgactatc ctcacgggtcc aacttatcgt ggagttcgcg 660
 61 aagggtattgc cagggttcgc caagatctcg cagcctgatc aaattacgct gcttaaggct 720
 63 tgctcaagtg aggtaaatgat gctccgagtc gcgcgacgat acgatgcggc ctcagacagt 780
 65 gttctgttcg cgaacaacca agcgtacact cgcgacaact accgcaaggc tggcatggcc 840
 67 tacgtcatcg aggatctact gcacttctgc cgggtgcatgt actctatggc gttggacaac 900
 69 atccattacg cgctgtctac ggctgtctgc atcttttctg accggccagg gttggagcag 960
 71 ccgcaactgg tggaagaaat ccagcgggtac tacctgaata cgctccgcat ctatatcctg 1020
 73 aaccagctga gcgggtcggc gcgttcgtcc gtcatatacg gcaagatcct ctcaatctc 1080
 75 tctgagctac gcacgctcgg catgcaaaac tccaacatgt gcactcctc caagctcaag 1140
 77 aacagaaagc tgccgccttt cctcgaggag atctgggatg tggcggacat gtcgcacacc 1200
 79 caaccgccgc ctatcctcga gtccccacg aatctctagc ccctgcgcgc acgcacgcgc 1260
 81 gatgccgcgt ccggccgcgc tgctctga 1288
 84 <210> SEQ ID NO: 2

RAW SEQUENCE LISTING

DATE: 10/18/2001

PATENT APPLICATION: US/09/965,703

TIME: 16:19:41

Input Set : A:\A01020B.ST25.txt

Output Set: N:\CRF3\10182001\I965703.raw

```

85 <211> LENGTH: 1110
86 <212> TYPE: DNA
87 <213> ORGANISM: Choristoneura fumiferana
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <223> OTHER INFORMATION: Novel Sequence
94 <400> SEQUENCE: 2
95 gcggtttata tttgtaaatt cggtcacgct tgcgaaatgg acatgtacat gcgacggaaa      60
97 tgccaggagt gccgcctgaa gaagtgcctta gctgtaggca tgaggcctga gtgcgtagta      120
99 cccgagactc agtgcgccat gaagcggaaa gagaagaaag cacagaagga gaaggacaaa      180
101 ctgcctgtca gcacgacgac ggtggacgac cacatgccgc ccattatgca gtgtgaacct      240
103 ccacctcctg aagcagcaag gattcacgaa gtgggtccaa ggtttctctc cgacaagctg      300
105 ttggagacaa accgagcaga aaacatcccc cagttgacag ccaaccagca gttccttata      360
107 gccaggctca tctgttacca ggacgggtac gagcagcctt ctgatgaaga tttgaagagg      420
109 attacgcaga cgtggcagca agcggacgat gaaaacgaag agtctgacac tcccttcgcg      480
111 cagatcacag agatgactat cctcacggtc caacttatcg tggagttcgc gaagggattg      540
113 ccaggggttcg ccaagatctc gcagcctgat caaattacgc tgcttaaggc ttgctcaagt      600
115 gaggtaatga tgctccgagt cgcgcgacga tacgatgcgg cctcagacag tgttctgttc      660
117 gcgaacaacc aagcgtacac tcgcgacaac taccgcaagg ctggcatggc ctacgtcatc      720
119 gaggatctac tgcacttctg ccggtgcatg tactctatgg cgttggacaa catccattac      780
121 gcgctgctca cggctgctgt catcttttct gaccggccag ggttggagca gccgcaactg      840
123 gtggaagaaa tccagcggta ctacctgaat acgctccgca tctatatact gaaccagctg      900
125 agcgggtcgg cgcgttcgct cgatcatatac ggcaagatcc tctcaatcct ctctgagcta      960
127 cgcacgctcg gcatgcaaaa ctccaacatg tgcattctcc tcaagctcaa gaacagaaag      1020
129 ctgccgcctt tctcgcagga gatctgggat gtggcggaca tgtcgcacac ccaaccgccg      1080
131 cctatcctcg agtccccccac gaatctctag                                     1110
134 <210> SEQ ID NO: 3
135 <211> LENGTH: 1054
136 <212> TYPE: DNA
137 <213> ORGANISM: Choristoneura fumiferana
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <223> OTHER INFORMATION: Novel Sequence
144 <400> SEQUENCE: 3
145 cctgagtgcg tagtaccgga gactcagtgc gccatgaagc ggaaagagaa gaaagcacag      60
147 aaggagaagg acaaactgcc tgtcagcacg acgacgggtg acgaccacat gccgcccatt      120
149 atgcagtgtg aacctccacc tctgaaagca gcaaggattc acgaagtggg cccaagggtt      180
151 ctctccgaca agctgttgga gacaaaccgg cagaaaaaca tccccagtt gacagccaac      240
153 cagcagttcc ttatcgccag gctcatctgg taccaggacg ggtacgagca gccttctgat      300
155 gaagatttga agaggattac gcagacgtgg cagcaagcgg acgatgaaaa cgaagagtct      360
157 gacactccct tccgccagat cacagagatg actatcctca cgggccaaact tatcgtggag      420
159 ttcgcgaagg gattgccagg gttcgccaag atctgcagc ctgatcaaat tacgtgctt      480
161 aaggcttgct caagtgaagg aatgatgtc cgagtcgcgc gacgatacga tgcggcctca      540
163 gacagtgttc tgctcgcgaa caaccaagcg tactctgcg acaactaccg caaggctggc      600
165 atggcctacg tcactcgagga tctactgcac ttctgcgggt gcatgtactc tatggcgttg      660
167 gacaacatcc attacgcgct gctcacggct gtcgtcatct tttctgaccg gccagggttg      720
169 gagcagccgc aactggtgga agaaatccag cggtaactacc tgaatacgtc ccgcatctat      780
171 atcctgaacc agctgagcgg gtcggcgcgct tcgtccgtca tatacgcaa gatcctctca      840
173 atcctctctg agctacgcac gctcggcatg caaaactcca acatgtgcat ctccctcaag      900

```

RAW SEQUENCE LISTING

DATE: 10/18/2001

PATENT APPLICATION: US/09/965,703

TIME: 16:19:41

Input Set : A:\A01020B.ST25.txt

Output Set: N:\CRF3\10182001\I965703.raw

```

175 ctcaagaaca gaaagctgcc gcctttcctc gaggagatct gggatgtggc ggacatgtcg      960
177 cacacccaac cgccgcctat cctcgagtcc cccacgaatc tctagcccct gcgcgcacgc      1020
179 atcgccgatg ccgcgtccgg ccgcgtgtct ctga      1054
182 <210> SEQ ID NO: 4
183 <211> LENGTH: 735
184 <212> TYPE: DNA
185 <213> ORGANISM: Choristoneura fumiferana
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <223> OTHER INFORMATION: Novel Sequence
192 <400> SEQUENCE: 4
193 taccaggacg ggtacgagca gcctttctgat gaagatttga agaggattac gcagacgtgg      60
195 cagcaagcgg acgatgaaaa cgaagagtct gacactccct tccgccagat cacagagatg      120
197 actatcctca cggttccaaact tatcgtggag ttgcggaagg gattgccagg gttcgccaag      180
199 atctcgacgc ctgatcaaat tacgctgctt aaggcttgct caagtgaggt aatgatgtct      240
201 cgagtcgcgc gacgatacga tgcggcctca gacagtgttc tgttcgcgaa caaccaagcg      300
203 tacactcgcg acaactaccg caaggctggc atggcctacg tcatcgagga tctactgcac      360
205 ttctgccggt gcatgtactc tatggcggtg gacaacatcc attacgcgct gctcacggct      420
207 gtcgtcatct tttctgaccg gccagggttg gacgagccgc aactggtgga agaaatccag      480
209 cggctactacc tgaatacgtc ccgcctctat atcctgaacc agctgagcgg gtcggcgcg      540
211 tcgtccgtca tatacggcaa gatcctctca atcctctctg agctacgcac gtcggcatg      600
213 caaaactcca acatgtgcat ctccctcaag ctcaagaaca gaaagctgcc gcctttcctc      660
215 gaggagatct gggatgtggc ggacatgtcg cacacccaac cgccgcctat cctcgagtcc      720
217 cccacgaatc tctag      735
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 960
222 <212> TYPE: DNA
223 <213> ORGANISM: Choristoneura fumiferana
225 <220> FEATURE:
226 <221> NAME/KEY: misc_feature
227 <223> OTHER INFORMATION: Novel Sequence
230 <400> SEQUENCE: 5
231 cctgagtgcg tagtaccgca gactcagtc gccatgaagc ggaaagagaa gaaagcacag      60
233 aaggagaagg acaaaactgcc tgtcagcacg acgacggtgg acgaccacat gccgcccatt      120
235 atgcagtggt aacctccacc tcctgaagca gcaaggattc acgaagtggg ccgaaggttt      180
237 ctctccgaca agctgttgga gacaaaccgg cagaaaaaca tccccagtt gacagccaac      240
239 cagcagttcc ttatcgccag gctcatctgg taccaggacg ggtacgagca gcctttctgat      300
241 gaagatttga agaggattac gcagacgtgg cagcaagcgg acgatgaaaa cgaagagtct      360
243 gacactccct tccgccagat cacagagatg actatcctca cggttccaaact tatcgtggag      420
245 ttgcggaagg gattgccagg gttcgccaag atctcgacgc ctgatcaaat tacgctgctt      480
247 aaggcttgct caagtgaggt aatgatgtct cgagtcgcgc gacgatacga tgcggcctca      540
249 gacagtgttc tgttcgcgaa caaccaagcg tacactcgcg acaactaccg caaggctggc      600
251 atggcctacg tcatcgagga tctactgcac ttctgccggt gcatgtactc tatggcggtg      660
253 gacaacatcc attacgcgct gctcacggct gtcgtcatct tttctgaccg gccagggttg      720
255 gacgagccgc aactggtgga agaaatccag cggctactacc tgaatacgtc ccgcctctat      780
257 atcctgaacc agctgagcgg gtcggcgcg tctccgtca tatacggcaa gatcctctca      840
259 atcctctctg agctacgcac gtcggcatg caaaactcca acatgtgcat ctccctcaag      900
261 ctcaagaaca gaaagctgcc gcctttcctc gaggagatct gggatgtggc ggacatgtcg      960
264 <210> SEQ ID NO: 6

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/965,703

DATE: 10/18/2001
TIME: 16:19:41

Input Set : A:\A01020B.ST25.txt
Output Set: N:\CRF3\10182001\I965703.raw

```

265 <211> LENGTH: 1878
266 <212> TYPE: DNA
267 <213> ORGANISM: Drosophila melanogaster
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <223> OTHER INFORMATION: Novel Sequence
274 <400> SEQUENCE: 6
275 ggacctgcgc cacgggtgca agaggagctg tgccctggttt gcggcgacag ggcctccggc 60
277 taccactaca acgccctcac ctgtgagggc tgcaaggggt tctttcgacg cagcgttacg 120
279 aagagcgccg tctactgctg caagtccggg cgcgcctgcg aaatggacat gtacatgagg 180
281 cgaaagtgtc aggagtgcg cctgaaaaag tgccctggccg tgggtatgcg gccggaatgc 240
283 gtcgtcccg agaaccaatg tgcgatgaag cggcgcgaaa agaaggccca gaaggagaag 300
285 gacaaaatga ccacttcgcc gagctctcag catggcgcca atggcagctt ggcctctggt 360
287 ggcggccaa ag actttgttaa gaaggagatt cttgacctta tgacatgcga gccgccccag 420
289 catgccacta ttccgctact acctgatgaa atattggcca agtgtcaagc gcgcaatata 480
291 ccttccttaa cgtacaatca gttggccggt atatacaagt taatttggtt ccaggatggc 540
293 tatgagcagc catctgaaga ggatctcagg cgtataatga gtcaaccgca tgagaacgag 600
295 agccaaacgg acgtcagctt tcggcatata accgagataa ccatactcac ggtccagttg 660
297 attgttgagt ttgctaaagg tctaccagcg tttacaaaga taccacagga ggaccagatc 720
299 acgttactaa aggctgctc gtcggagggt atgatgctgc gtatggcacg acgctatgac 780
301 cacagctcgg actcaatatt cttcgcgaat aatagatcat atacgcggga ttcttacaaa 840
303 atggccggaa tggctgataa cattgaagac ctgctgcatt tctgccgcca aatgttctcg 900
305 atgaaggtgg acaacgtcga atacgcgctt ctcactgcc a ttgtgatctt ctcggaaccg 960
307 ccgggcctgg agaaggccca actagtcgaa gcgatccaga gctactacat cgacacgcta 1020
309 cgcatttata tactcaaccg ccactgcggc gactcaatga gcctcgtctt ctacgcaaag 1080
311 ctgctctcga tcctcaccga gctgcgtacg ctgggcaacc agaacgccga gatgtgttct 1140
313 tcaactaaagc tcaaaaaccg caaactgccc aagttcctcg aggagatctg ggacgttcat 1200
315 gccatcccg ccatcggtcca gtgcacctt cagattaccc aggaggagaa cgagcgtctc 1260
317 gagcgggctg agcgtatgcg ggcacggtt gggggcgcca ttaccgcgg cattgattgc 1320
319 gactctgcct ccacttcggc ggcggcagcc gcggcccagc atcagcctca gcctcagccc 1380
321 cagccccaac cctcctccct gaccagaac gattcccagc accagacaca gccgcagcta 1440
323 caacctcagc taccacctca gctgcaaggt caactgcaac cccagctcca accacagctt 1500
325 cagacgcaac tccagccaca gattcaacca cagccacagc tccttccggt ctccgctccc 1560
327 gtgcccgcct ccgtaaccgc acctggttcc ttgtccgcgg tcagtacgag cagcgaatac 1620
329 atggggcgaa gtgcggccat aggacccatc acgcccggca ccaccagcag tatcacggct 1680
331 gccgttaccg ctagtccac cacatcagcg gtaccgatgg gcaacggagt tggagtcggt 1740
333 gttgggggtg gcggcaacgt cagcatgtat gcgaacgcc agacggcgat ggccttgatg 1800
335 ggtgtagccc tgcattcgca ccaagagcag cttatcgggg gagtggcggt taagtcggag 1860
337 cactcgacga ctgcatag 1878
340 <210> SEQ ID NO: 7
341 <211> LENGTH: 1752
342 <212> TYPE: DNA
343 <213> ORGANISM: Drosophila melanogaster
345 <220> FEATURE:
346 <221> NAME/KEY: misc_feature
347 <223> OTHER INFORMATION: Novel Sequence
350 <400> SEQUENCE: 7
351 gccgtctact gctgcaagtt cgggcgcgcc tgcgaaatgg acatgtacat gaggcgaaag 60
353 tgtcaggagt gccgcctgaa aaagtgcctg gccgtgggta tgcggccgga atgcgtcgtc 120

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/965,703

DATE: 10/18/2001
TIME: 16:19:41

Input Set : A:\A01020B.ST25.txt
Output Set: N:\CRF3\10182001\I965703.raw

```

355 ccggagaacc aatgtgcgat gaagcggcgc gaaaagaagg cccagaagga gaaggacaaa 180
357 atgaccactt cgccgagctc tcagcatggc ggcaatggca gcttggcctc tgggtggcggc 240
359 caagactttg ttaagaagga gattcttgac cttatgacat gcgagccgcc ccagcatgcc 300
361 actattccgc tactacctga tgaaatattg gccaaagtgc aagcgcgcaa tataccttcc 360
363 ttaacgtaca atcagttggc cgttatatac aagttaattt ggtaccagga tggtatgag 420
365 cagccatctg aagaggatct caggcgtata atgagtcaac ccgatgagaa cgagagccaa 480
367 acggacgtca gctttcggca tataaccgag ataaccatac tcacggtcca gttgattgtt 540
369 gagtttgcta aaggtctacc agcgtttaca aagatacccc aggaggacca gatcacgtta 600
371 ctaaaggcct gctcgtcggg ggtgatgatg ctgctgatgg cagcagccta tgaccacagc 660
373 tcggactcaa tattcttcgc gaataataga tcatatacgc gggattctta caaaatggcc 720
375 ggaatggctg ataacattga agacctgctg catttctggc gccaaatggt ctcgatgaag 780
377 gtggacaacg tcgaatacgc gcttctcact gccattgtga tcttctcgga ccggccgggc 840
379 ctggagaagg cccaactagt cgaagcgatc cagagctact acatcgacac gctacgcatt 900
381 tatatactca accgcactg cggcgactca atgagcctcg tcttctacgc aaagctgctc 960
383 tcgactctca ccgagctcg tgacgtgggc aaccagaacg ccgagatgtg tttctcacta 1020
385 aagctcaaaa accgcaaaact gcccaagttc ctcgaggaga tctgggacgt tcatgccatc 1080
387 ccgccatcgg tccagtcgca ccttcagatt acccaggagg agaacgagcg tctcgagcgg 1140
389 gctgagcgta tgcgggcacg ggttgggggc gccattaccg ccggcattga ttgcgactct 1200
391 gcctccactt cggcggcggc agccgcggcc cagcatcagc ctccagcctc gccccagccc 1260
393 caaccctcct ccctgaccca gaacgattcc cagcaccaga cacagccgca gctacaacct 1320
395 cagctaccac ctccagctgca aggtcaactg caaccccagc tccaaccaca gttcagacg 1380
397 caactccagc cacagattca accacagcca cagctccttc ccgtctccgc tcccgtgccc 1440
399 gcctccgtaa ccgcacctgg ttccttgctc gcggtcagta cgagcagcga atacatgggc 1500
401 ggaagtgcgg ccataggacc catcacgccg gcaaccacca gcagtatcac ggctgccgtt 1560
403 accgctagct ccaccacatc agcggtagcg atgggcaacg gagttggagt cgggtgtggg 1620
405 gtggggcgga acgtcagcat gtatgcgaac gcccagacgg cgatggcctt gatgggtgta 1680
407 gccctgcatt cgcaccaaga gcagcttatc gggggagtg cggttaagtc ggagcactcg 1740
409 acgactgcat ag
412 <210> SEQ ID NO: 8
413 <211> LENGTH: 1650
414 <212> TYPE: DNA
415 <213> ORGANISM: Drosophila melanogaster
417 <220> FEATURE:
418 <221> NAME/KEY: misc_feature
419 <223> OTHER INFORMATION: Novel Sequence
422 <400> SEQUENCE: 8
423 cgcccggaat gcgtcgctcc ggagaaccaa tgtgcgatga agcggcgcgga aaagaaggcc 60
425 cagaaggaga aggacaaaat gaccacttcg ccgagctctc agcatggcgg caatggcagc 120
427 ttggcctctg gtggcgccca agactttgtt aagaaggaga ttcttgacct tatgacatgc 180
429 gagccgcccc agcatgccac tattccgcta ctacctgatg aaatattggc caagtgtcaa 240
431 gcgcgcaata taccttccct aacgtacaat cagttggccg ttatatacaa gtttaatttg 300
433 taccaggatg gctatgagca gccatctgaa gaggatctca ggcgtataat gagtcaacct 360
435 gatgagaacg agagccaaac ggacgtcagc tttcggcata taaccgagat aaccatactc 420
437 acggtccagt tgattgttga gtttgctaaa ggtctaccag cgtttacaaa gataccccag 480
439 gaggaccaga tcacgttact aaaggcctgc tcgtcggagg tgatgatgct gcgtatggca 540
441 cgacgctatg accacagctc ggactcaata ttcttcgcga ataatagata atatacgcg 600
443 gattcttaca aaatggccgg aatggctgat aacattgaag acctgctgca tttctgccgc 660
445 caaatgttct cgatgaaggc ggacaacgtc gaatacgcgc ttctcactgc cattgtgatc 720
447 ttctcggacc ggccgggcct ggagaaggcc caactagtcg aagcgatcca gagctactac 780

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,703

DATE: 10/18/2001

TIME: 16:19:43

Input Set : A:\A01020B.ST25.txt

Output Set: N:\CRF3\10182001\I965703.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number